SEQ ID NO	Sequence
1	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
2	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRY
3	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQK
4	AC-HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRY
5	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGT
6	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKR
7	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRY
8	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRY
9	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRY
10	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRY
11	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQKR
12	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQKR
13	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKR
14	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQKR
15	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQKR
16	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKR
17	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRQKR
18	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRR
19	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKA
20	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKF
21	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKH
22	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKI
23	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKK
24	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKL
25	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKM
26	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKP
27	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQ
28	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKS
29	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKT
30	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKV
31	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKW
32	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKY
33	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQRI
34	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQRI
35	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRI
36	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQRI
37	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIRQRI

FIG. 1a

SEQ ID NO	Sequence
38	Ac-HSDAVFTDNYTRLRKQVAAKKYLQSIKQKRY
39	Ac-HSDAYFTDNYTRLRKQMAAKKYLQSIKQKRY
40	Ac-HSDAVFTDNYTRLRKQVAAKKYLQSIKQK
41	Ac-HTEAVFTDNYTRLRKQVAAKKYLQSIKQKRY
42	Ac-HSDAVFTDNYTRLRKQLAVKKYLQDIKQGGT
43	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKR
44	Ac-HSDAVFTDNYTRLRKQLAAKKYLQTIKQKRY
45	Ac-HSDAVFTDNYTRLRKQMAAKKYLQTIKQKRY
46	Ac-HSDAVFTDNYTRLRKQMAAHKYLQSIKQKRY
47	Ac-HSDAVFTDNYTRLRKQMAAKHYLQSIKQKRY
48	Ac-HSDAVFTDNYTRLRKQMAGKKYLQSIKQKR
49	Ac-HSDAVFTDNYTRLRKQMAKKKYLQSIKQKR
50	Ac-HSDAVFTDNYTRLRKQMARKKYLQSIKQKR
51	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIKQKR
52	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIPQKR
53	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIQQKR
54	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIRQKR
55	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQRR
56	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKA
57	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKF
58	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKH
.59	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKI
60	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKK
61	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKL
62	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKM
63	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKP
64	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKQ
65	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKS
66 •	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKT
67	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKV
68	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKW
69	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKY
70	Ac-HSDAVFTDNYTRLRKQMAGKKYLQSIKQRI
71	Ac-HSDAVFTDNYTRLRKQMAKKKYLQSIKQRI
72	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIKQRI
73	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIPQRI
74	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIRQRI

FIG. 1b

SEQ ID NO	Sequence
75	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNKRY
76	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKRY
77	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNK
78	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKNKRY
79	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKNGGT
80	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKR
81	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKNKRY
82	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKNKRY
83	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKNKRY
84	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKNKRY
85	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNKR
86	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKNKR
87	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKNKR
88	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKNKR
89	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPNKR
90	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQNKR
91	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRNKR
92	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNRR
93	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKA
94	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKF
95	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKH
96	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKI
97	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKK
98	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKL
99	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKM
100	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKP
101	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKQ
102	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKS
103	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKT
104	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKV
105	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKW
106	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKY
107	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNRI
108	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKNRI
109	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKNRI
110	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPNRI
111	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIRNRI

FIG. 1c

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SEQ ID NO .	Sequence
112	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
113	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRYC-PEG
114	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKC-PEG
115	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
116	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGTC-PEG
117.	'Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRC-PEG
118	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRYC-PEG
119	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRYC-PEG
120	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRYC-PEG
121	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRYC-PEG
122	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQKRC-PEG
123	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQKRC-PEG
124	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKRC-PEG
125	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQKRC-PEG
126	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQKRC-PEG
127	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKRC-PEG
128	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRQKRC-PEG
129	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRRC-PEG
130	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKAC-PEG
131	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKFC-PEG
132	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKHC-PEG
133	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKIC-PEG
134	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKKC-PEG
135	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKLC-PEG
136	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKMC-PEG
137	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKPC-PEG
138	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQC-PEG
139	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKSC-PEG
140	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKTC-PEG
141	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKVC-PEG
142	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKWC-PEG
143	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKYC-PEG
144	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQRIC-PEG
145	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQRIC-PEG
146	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRIC-PEG
147	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQRIC-PEG
148	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIRQRIC-PEG

FIG. 1d

SEQ ID NO	Sequence
149	HSDGIFTDSYSRYRKQMAVKKYLAAVLGKRYKQRVKNK
•	(PACAP38)
150	HSDGIFTDSYSRYRKQMAVKKYLAAVL (PACAP27)
151	HSDAVFTDNYTRLRKQMAVKKYLNSILN (VIP)
152	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
153	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
154	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
155	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG

FIG. 1e

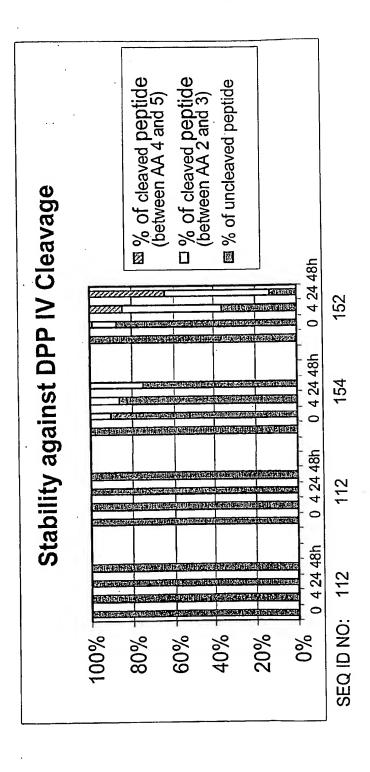
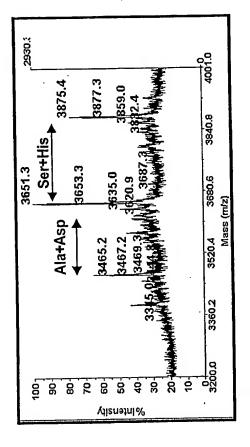


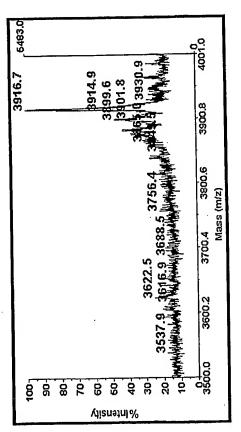
Figure 2a

Figure 2b

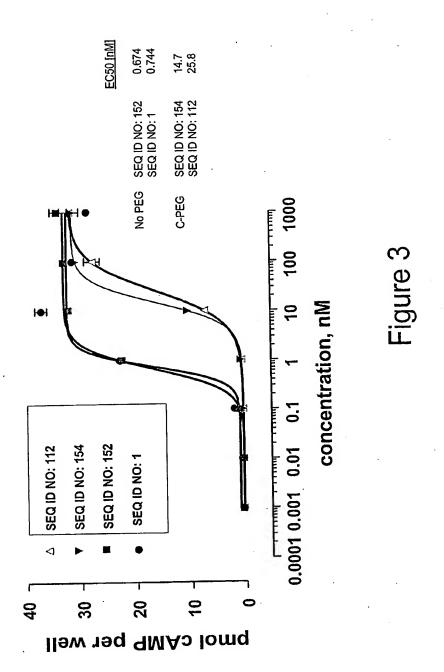
SEQ ID NO: 152 is cleaved by DPPIV

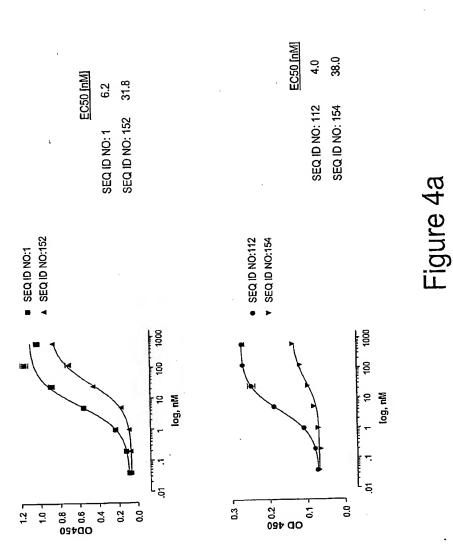
SEQ ID NO: 1 is not cleaved by DPPIV



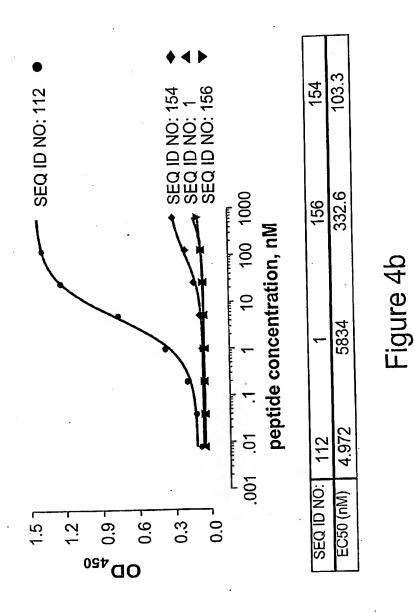


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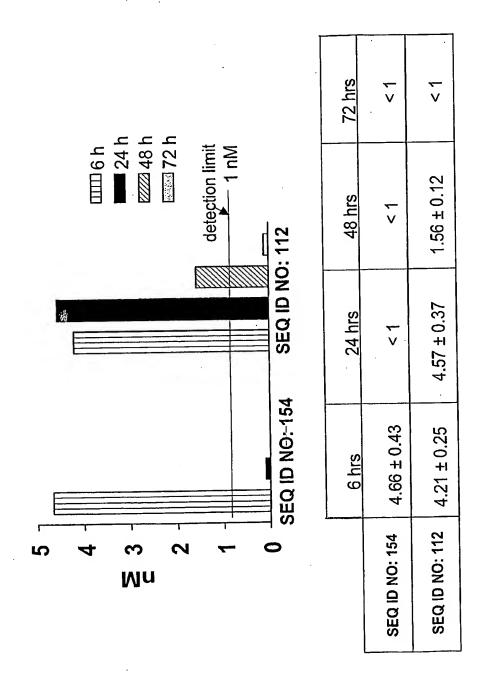
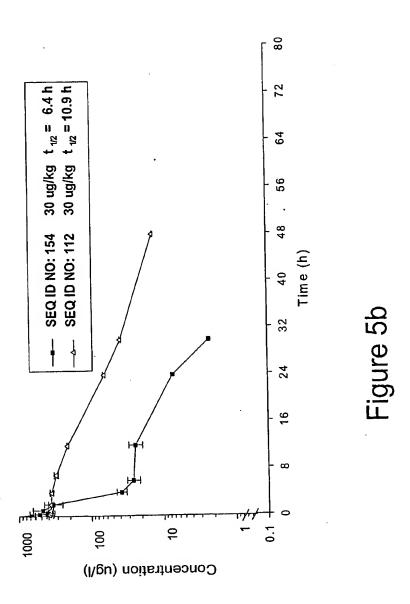
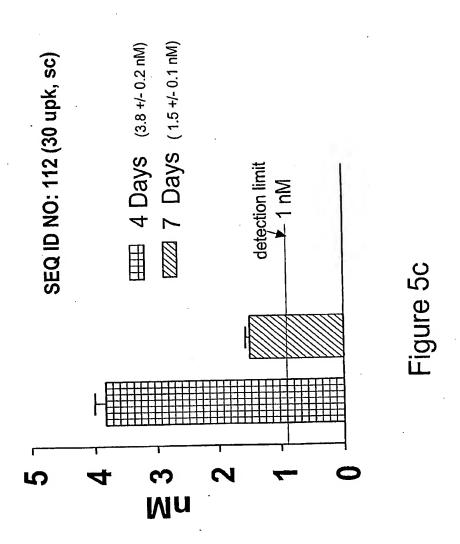
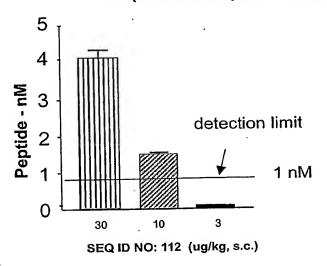


Figure 5a





PK (Cre-Luc Reporter Assay)



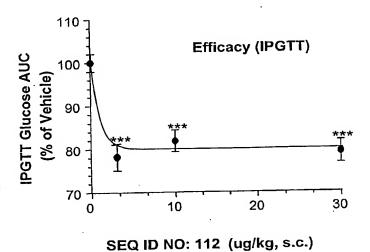
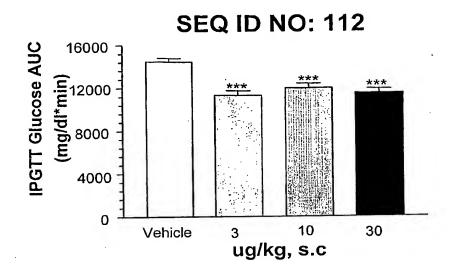


Figure 6a



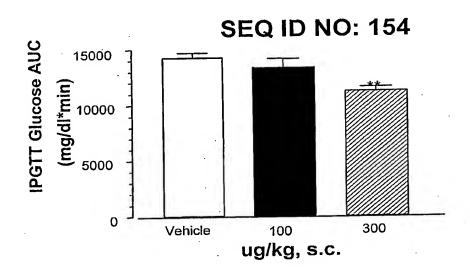
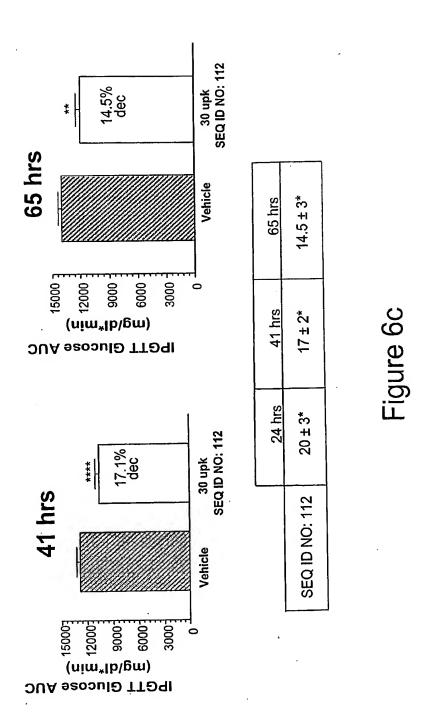


Figure 6b



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